

## ExxonMobil Bicolor™ 15MB440 OPP Film

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

### Material Notes:

**Product Description:** Bicolor 15MB440 is a biaxially oriented transparent polypropylene film designed to be the outside web of a laminate. **Availability:** Arica & Middle East, Asia Pacific, Europe, Latin America, North America and South America **Key Features:** Very good sealability of the untreated surface with a wide range of polyethylene for lap seal applications Excellent jaw release Outstanding optical properties, stable in time. **Features:** In Lamination Lap Sealable Lap Sealable to PE **Applications:** Bakery Biscuits/Cookie/Crackers Fresh Produce Frozen Food Health and Beauty Care Household and Detergents Ice Cream Pet Food **Uses:** Pre-made Bags – Flexible Packaging VFFS Flexible Packaging **Processing Method:** Outer Web Adhesive Lamination, Outer Web Extrusion Lamination, Solvent Flexographic Printing and Solvent Rotogravure Printing **Information provided by ExxonMobil**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Bicolor-15MB440-OPP-Film.php](http://www.lookpolymers.com/polymer_ExxonMobil-Bicolor-15MB440-OPP-Film.php)

Physical Properties	Metric	English	Comments
Water Vapor Transmission	1.40 g/m <sup>2</sup> /day	0.0900 g/100 in <sup>2</sup> /day	85% RH; ExxonMobil Method
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.98 g/m <sup>2</sup> /day	0.450 g/100 in <sup>2</sup> /day	90% RH; ExxonMobil Method
	@Temperature 38.0 °C	@Temperature 100 °F	
Thickness	15.0 microns	0.590 mil	ExxonMobil Method
Coating Weight	13.4 g/m <sup>2</sup>	8.40 lb/ream	ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	160 %	160 %	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Film Elongation at Break, TD	40 %	40 %	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Modulus of Elasticity	1.80 GPa	261 ksi	MD; ExxonMobil Method
	3.50 GPa	508 ksi	TD; ExxonMobil Method
Coefficient of Friction	0.40	0.40	Untreated Surface; ExxonMobil Method
Seal Strength	510 g/25 mm	510 g/in	Otto Bruger, 0.2 sec; ExxonMobil Method
	@Pressure 0.276 MPa, Temperature 140 °C	@Pressure 40.0 psi, Temperature 284 °F	
	510 g/25 mm	510 g/in	Otto Bruger, 0.2 sec; ExxonMobil Method
	@Pressure 0.276 MPa, Temperature 140 °C	@Pressure 40.0 psi, Temperature 284 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	120 MPa	18900 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Film Tensile Strength at Break, TD	285 MPa	41300 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method

Thermal Properties	Metric	English	Comments
Shrinkage, MD	5.0 %	5.0 %	ExxonMobil Method
	@Temperature 135 °C	@Temperature 275 °F	
Shrinkage, TD	5.0 %	5.0 %	ExxonMobil Method
	@Temperature 135 °C	@Temperature 275 °F	

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ExxonMobil Method
Gloss	85 %	85 %	45°; ExxonMobil Method

Descriptive Properties	Value	Comments
Heat Seal Range	15°C	UT/LLDPE, 36.3 psi (0.25 MPa), 0.2 sec
	25°C	UT/LLDPE, 36.3 psi (0.25 MPa), 0.2 sec
Yield	51500 in <sup>2</sup> /lb	

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